

Title (en)  
DUST CORE AND PROCESS FOR PRODUCING THE SAME

Title (de)  
STAUBKERN UND PROZESS ZU SEINER HERSTELLUNG

Title (fr)  
NOYAU EN POUDRE COMPRIME ET SON MOYEN DE PRODUCTION

Publication  
**EP 1542242 A1 20050615 (EN)**

Application  
**EP 03784478 A 20030709**

Priority

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- JP 2002229713 A 20020807

Abstract (en)  
A powdered core made by compacting of a mixture of iron powder and resin powder of insulating binder, wherein the iron powder is composed of atomized iron powder and reduced iron powder, and the resin powder is any one of thermosetting polyimide powder, a mixture of both thermosetting polyimide powder and polytetrafluoroethylene powder, thermoplastic polyimide powder, and a mixture of both thermoplastic polyimide powder and polytetrafluoroethylene powder, which is followed by heat treatment, thereby obtaining a powdered core having high magnetic flux density, low iron loss, and having excellent machinability in shaping, cutting or drilling without forming any defects such as chipping or cracks. <IMAGE>

IPC 1-7  
**H01F 1/26**; **H01F 27/24**

IPC 8 full level  
**H01F 27/255** (2006.01); **H01F 1/26** (2006.01); **H01F 41/02** (2006.01)

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